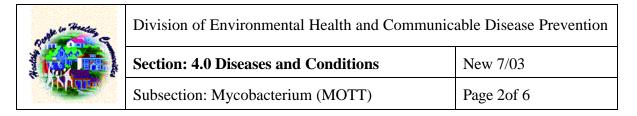
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Mycobacterium Other Than Tuberculosis (MOTT)

Overview

For a more complete description of Mycobacterium other then Tuberculosis refer to the following texts:

- <u>Control of Communicable Disease Manual</u> (CCDM).
- Red Book, Report of the Committee on Infectious Diseases.

Case Definition

Clinical Description

Mycobacterium other than Tuberculosis that may cause human disease but do not cause tuberculosis.

Diagnostic Criteria of Nontuberculosis Mycobacterium Lung Disease in HIV-Seropositive and Seronegative Hosts.

The following criteria apply to symptomatic patients with a chest x-ray showing infiltrate, nodular or cavitary disease, or a high resolution computed tomagraphy scan that shows multifocal bronchiectasis and/or multiple small nodules.

- A. If three sputum/bronchial wash results are available from the previous 12 mo:
 - 1. Three positive cultures with negative AFB smear results or
 - 2. Two positive cultures and one positive AFB smear
- B. If only one bronchial wash is available:
 - 1. Positive culture with a 2+, 3+, or 4+ AFB smear or 2+, 3+, or 4+ growth on solid media
- C. If sputum/bronchial wash evaluations are nondiagnostic or another disease cannot be excluded:
 - 1. Transbronchial or lung biopsy yielding a NTM or
 - 2. Biopsy showing mycobacterium histopathologoc features (granulomatous inflammation and/or AFB) and one or more sputum or bronchial washings are positive for an NTM even in the numbers.

List of common mycobacterium:

M.avium, M. gordonae, M. fortuitum, M. kansasaii, M. chelonae

Case classification

Confirmed: A clinically compatible illness that is culture confirmed.

Comments:

A patient that is positive with a MOTT infection can have a false positive PPD skin tests, since this preparation derived from M. tuberculosis, echoes a number of antigens with MOTT species. *MOTT infection is currently not reportable to CDC through MOHSIS*.



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Information needed for Investigation

Many of these species are ubiquitous and are found in soil, food, water and animals, and are not generally considered to be contagious. Therefore, even though this is a reportable condition an investigation is not required.

Case Contact Follow-up and Control Measures

Control Measures

The only control measures are chemoprophyloxis for certain patients with HIV infection and use of sterile equipment for middle-ear instrumentation, including otoscopic equipment for prevention of Mabscesital otitis media. Sterile medical devices and nosocomial infection of MOTT may include infections of long-term intravenous or peritoneal catheters, post injection abscesses, or surgical wound infections such as those occurring after augmentation mammoplasty or cardiac bypass surgery.

Laboratory Procedures

Laboratory testing for mycobacterium other than tuberculosis (MOTT) is widely available through many private commercial reference laboratories. MOTTs are often isolated when testing for mycobacteria tuberculosis. The state health lab processes MOTTs at the TB State Health Lab in Mount Vernon, MO.

Reporting Requirements

Mycobacterium other than Tuberculosis is a category II disease and should be reported to the local health authority or to the Missouri Department of Health and Senior Services (MODHSS) within three (3) days of first knowledge or suspicion.

- 1. For all reported cases, complete a "Disease Case Report" (CD-1).
- 2. Send the completed form to the Regional Health Office.
- 3. All outbreaks or "suspected" outbreaks must be reported as soon as possible (by phone, fax, or e-mail) to the Regional Communicable Disease Coordinator. This can be accomplished by completing the Missouri Outbreak Surveillance Report (CD-51).
- 4. Within 90 days of the conclusion of an outbreak, submit the final outbreak report to the Regional Communicable Disease Coordinator.



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References

- American Academy of Pediatrics. "Disease Caused by Non Tuberculosis Mycobacterium." In: Pickering LK, ed. <u>2000 Red Book: Report of the committee on Infectious Diseases.</u> 25th ed. Elk Grove village, IL. 2000:613-618.
- 2. Chin, James, ed "Diseases due to Other Mycobacterium." Control of Communicable Disease Manual. 17th ed. Washington, DC: American Public Health Association, 2000: 530-532.
- 3. Center for Disease Control and Prevention. "Non Tuberculosis Mycobacterium"
- 4. National Jewish Medical and Research Center "MEDFACTS Non Tuberculosis Mycobacterium (NTM)"
- 5. ATS. "Diagnosis and Treatment of Disease caused by Nontuberculosis Mycobacterium" American Journal Respiratory Critical Care Med. Vol. 156 pp. 51-525, 1997

Websites

- Center for Disease Control and Prevention http://www.cdc.gov/ncidod/dastlr/tb/tb_ntm.htm (June 03)
- 2. National Jewish Medical and Research Center http://nationaljewish.org/medfacts/nontuberculosis.html (June 03)
- 3. American Thoracic Society www.thoracic.org/adobe/statements/nontuberc1-27.pdf (June 03)

Mycobacteria Other Than Tuberculosis (MOTT)

FACT SHEET

What is MOTT?

Mycobacteria other than tuberculosis are mycobacterial species that my cause human disease but do not cause tuberculosis. Every year in the United States approximately two people per 100,000 population develop infections caused by theses lesser-known "cousins" of tuberculosis. In fact, data suggest that there may be rising numbers of cases in certain parts of the country.

How is MOTT spread?

Unlike tuberculosis, which is spread from person to person, MOTT infections are not considered contagious. There is no evidence that the infection can be transmitted from one person to another. Just how and why people become infected with MOTT is not clear.

What are the symptoms of MOTT?

Like tuberculosis, an MOTT infection primarily affects the lungs and the symptoms are similar. Moth MOTT infections progress slowly. Symptoms may include:

- Fever
- Weight loss
- Cough
- Lack of appetite
- Night sweats
- Blood in the sputum (phlegm)
- Loss of energy

How is MOTT infection diagnosed?

MOTT infections can be more difficult to diagnose that tuberculosis. It is important for your health care provider to determine if the infection is tuberculosis or MOTT, and if MOTT, which specific type. In addition, it is important for the health care provider to determine whether the MOTT infection requires treatment. Some people harbor the germs and remain well. They may need observation but not specific treatment. Others have or may be developing serious and progressive illness. A diagnosis is generally based on the following:

- Medical history including your symptoms
- Chest X-ray
- Sputum culture Several sputum cultures are often necessary and must be done at specialized laboratories.
- Other procedures More complicated diagnostic procedures may be required in certain cases.

What is the treatment for MOTT infection?

Many MOTT infections are benign with no need for treatment. MOTT infections are naturally resistant to conventional antibiotics and it is necessary to use some of the same medications that are used to treat tuberculosis. In order to overcome drug resistance, the physician may be required to administer several different anti-TB medications at the same time. Because many of these medications have side effects, close monitoring is important. Furthermore, treatment may be necessary for as long as two years and sometimes indefinitely depending on the severity of the disease.

Missouri Department of Health and Senior Services Section for Communicable Disease Prevention Phone: (866) 628-9891 or (573) 751-6113



REPORT TO LOCAL PUBLIC HEALTH AGENCY DATE RECEIVED BY LOCAL HEALTH AGENCY (INSTRUCTIONS ON REVERSE SIDE) **CASE IDENTIFICATION (ALL DISEASES)** NAME (LAST FIRST MIL) DATE OF BIRTH (MO/DAY/YR) AGE TELEPHONE NUMBER) GENDER ADDRESS (STREET OR RFD, CITY, STATE, ZIP CODE) MEDICAL RECORD NUMBER □м □ ғ PATIENT DIED OF THIS ILL NESS COUNTY OF RESIDENCE PARENT OR GUARDIAN IF A MINOR □ NO ☐ YES PATIENT EMPLOYED? SCHOOL/DAY CARE/WORKPLACE AND OCCUPATION ETHNIC ORIGIN ☐ YES ☐ HISPANIC ☐ HISPANIC DATE ARRIVED IN U.S.A. PATIENT'S COUNTRY OF ORIGIN RACE BLACK ☐ ASIAN/PACIFIC ISLANDER ☐ MIXED □ WHITE ☐ AMERICAN INDIAN OTHER (SPECIFY) YES NO YES NO WAS PATIENT HOSPITALIZED? ARRIVED BY AMBULANCE? ☐ YES ☐ NO ☐ UNKNOWN OTHER CASES? YES NO **RESIDE IN NURSING HOME?** NOSOCOMIAL INFECTION? YES NO NAME OF HOSPITAL/NURSING HOME **ADDRESS B. PERSON OR AGENCY REPORTING** NAME DATE OF REPORT (MO/DAY/YR) TELEPHONE NUMBER ADDRESS OUTPATIENT CLINIC PHYSICIAN LABORATORY ☐ HOSPITAL SCHOOL PUBLIC HEALTH CLINIC ADDRESS TELEPHONE NUMBER ATTENDING PHYSICIAN NAME C. DISEASE PLEASE INCLUDE CONFIRMATORY LABORATORY DATA (ATTACH COPY IF AVAILABLE) DISEASE TYPE OF TEST RESULT LAB NAME/LOCATION DATE OF ONSET (MO/DAY/YR) DATE OF DIAGNOSIS (MO/DAY/YR) LEAD COMMENTS UENOUS CAP PLEASE COMPLETE THE APPROPRIATE SECTION FOR THE DISEASE BEING REPORTED D. SYPHILIS GONORRHEA CHLAMYDIA DATE TEST RESULTS HAS PATIENT BEEN TREATED? SEXUALLY TRANSMITTED □ NO ☐ YES ☐ PRIMARY (CHANCRE PRESENT) ☐ SECONDARY (SKIN LESIONS, RASH, ETC.) ☐ ASYMPTOMATIC DATE(S) OF TREATMENT ☐ EARLY LATENT (ASYMPTOMATIC. □ UNCOMPLICATED UROGENITAL LESS THAN 1 YEAR) (URETHRITIS, CERVICITIS) ☐ LATE LATENT (OVER 1 YEAR DURATION) TREATMENT NOT INDICATED BECAUSE: TYPE AND AMOUNT OF ☐ SALPINGITIS (PID) ☐ PREVIOUS ADEQ. TREATMENT ☐ FALSE POSITIVE TREATMENT □ NEUROSYPHILIS ☐ OPHTHALMIA/CONJUNCTIVITIS DATE OF PREVIOUS TREATMENT ☐ CARDIOVASCULAR ☐ OTHER (ARTHRITIS, SKIN LESIONS, ☐ CONGENITAL PREV. DISEASE/STAGE ETC.) ☐ OTHER E. ENTERIC AND PARASITIC DISEASES AND HEPATITIS A TREATMENT F. HEPATITIS □ A □в □с ☐ PRENATAL ☐ OTHER CHECK BELOW IF PATIENT OR DRUG (CHECK ALL TESTS PERFORMED) PATIENT HHLD MEMBER MEMBER OF PATIENT'S ENTERIC DISEASES OR HEPATITIS YES NO UNK JAUNDICED: T YES POS NEG □ NO HOUSEHOLD (HHLD): YES NO UNK TEST DOSAGE HAV-IgM IS A FOOD HANDLER JAUNDICE ONSET DATE: __ HBcAb-IgM HBsAq ATTENDS OR WORKS AT CARRIER? ☐ YES \square NO HBsAb ALT AST HBcAb IS A HEALTH CARE WORKER ☐ NO TREATMENT G. DISEASE OR INFECTION BACTERIOLOGY X-RAY TREATMENT DOSAGE TYPE OF SPECIMEN □ NORMAL (DATE). ☐ ISONIAZID ☐ ABNORMAL (DATE) TUBERCULIN TEST (DATE) ☐ ETHAMBUTOL TUBERCULOSIS ☐ PYRAZINAMIDE (CHECK ONE) POS NEG ING RESULTS (MM INDURATION) SMEAR (DATE) ☐ STABLE ☐ CAVITABY ☐ RIFAMPIN □ WORSENING ☐ NONCAVITARY CULTURE (DATE) _ ☐ OTHER (SPECIFY ☐ IMPROVING REPORT DATE TYPE OF TEST (CHECK ONE)

□ NOT DONE

☐ MANTOUX (5TU-PPD)

☐ MULTIPLE PUNCTURE DEVICE

☐ NOT STATED OR UNKNOWN

☐ ATYPICAL MYCOBACTERIA (SPECIFY) _

IF CULTURE POSITIVE:

☐ M. TUBERCULOSIS

☐ NOT DONE

□ NOT DONE

□ UNKNOWN

☐ YES

PREVIOUS TB DISEASE

□ NO

☐ UNK

DATE TREATMENT STARTED